

Photometric test report

Family
Silica® 21 round S

Order number: 51MF31DA4NSA
EAN: 4069025807250

LP number
60079_5

serial
documentation
20.05.2026

siteco



Version

Suspended luminaire, housing, silver, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤22

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 3520 lm

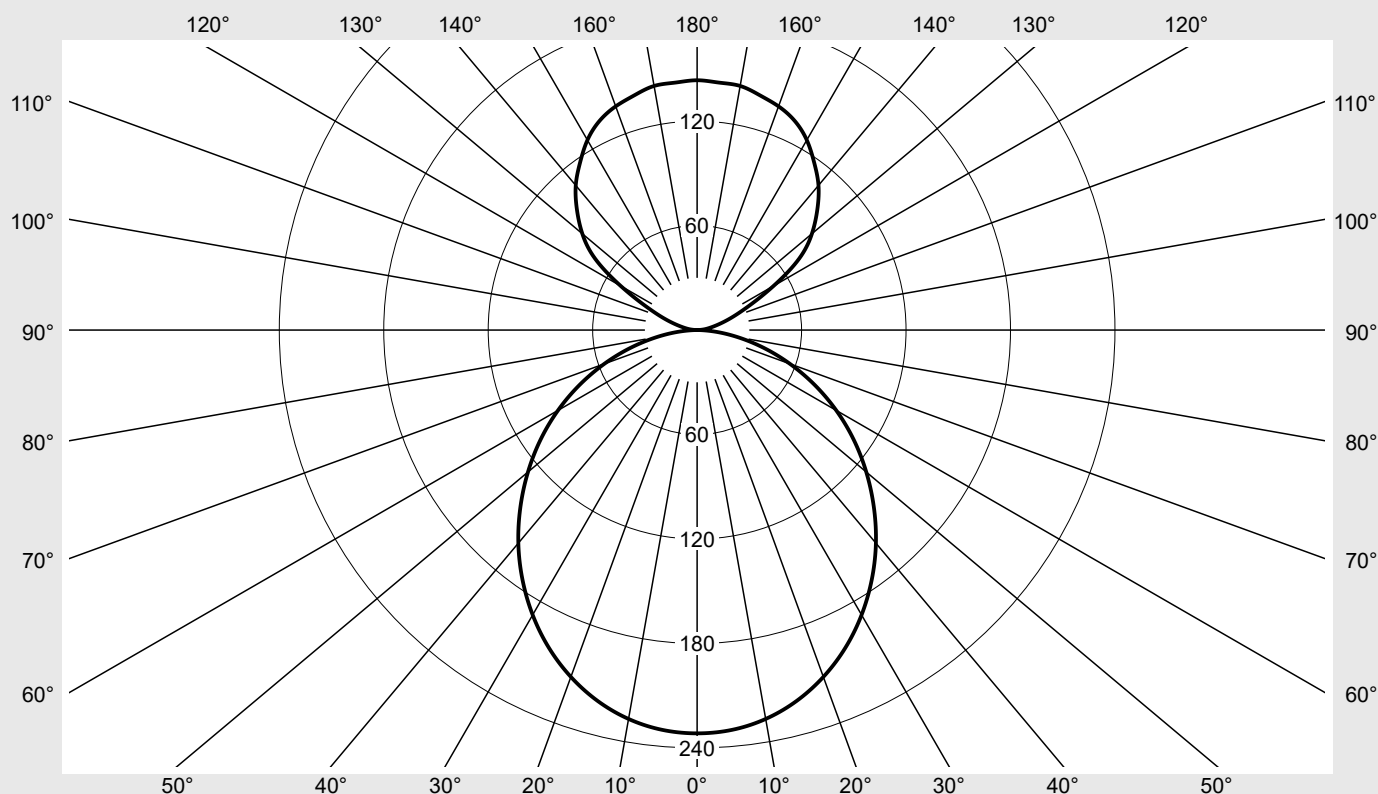
Power consumption = 22.8 W

Luminous efficacy = 154.4 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 232 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=62 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 62.3%
 ϕ_o 37.7%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity

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C- planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	231.6	1.4	1.4
5°	230.5	11.0	12.4
10°	226.8	21.6	34.0
15°	220.6	31.3	65.3
20°	212.0	39.7	105.0
25°	201.4	46.7	151.7
30°	188.9	51.8	203.5
35°	174.9	55.0	258.5
40°	159.8	56.3	314.7
45°	143.5	55.6	370.4
50°	126.8	53.3	423.6
55°	109.8	49.3	472.9
60°	92.3	43.8	516.7
65°	74.5	37.0	553.7
70°	56.7	29.2	582.9
75°	39.7	21.0	604.0
80°	23.9	12.9	616.9
85°	10.3	5.6	622.5
90°	0.8	0.4	622.9
95°	3.3	1.8	624.7
100°	7.4	4.0	628.7
105°	13.0	6.9	635.6
110°	21.3	11.0	646.5
115°	32.8	16.3	662.8
120°	50.7	24.1	686.9
125°	71.6	32.1	719.0
130°	86.1	36.1	755.2
135°	97.6	37.8	793.0
140°	108.5	38.2	831.2
145°	117.3	36.9	868.1
150°	126.0	34.5	902.6
155°	132.6	30.7	933.3
160°	136.7	25.6	959.0
165°	139.6	19.8	978.8
170°	142.4	13.6	992.3
175°	142.7	6.8	999.1
180°	143.5	0.9	1000.0

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UGR-Table		Standard room							siTeco		
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	15.9	17.0	16.7	17.8	18.9	15.9	17.0	16.7	17.8	18.9
	3H	17.4	18.3	18.2	19.1	20.2	17.4	18.3	18.2	19.1	20.2
	4H	18.0	18.9	18.8	19.7	20.8	18.0	18.9	18.8	19.7	20.8
	6H	18.4	19.2	19.3	20.1	21.2	18.4	19.2	19.3	20.1	21.2
	8H	18.5	19.2	19.4	20.1	21.2	18.5	19.2	19.4	20.1	21.2
	12H	18.6	19.3	19.5	20.2	21.3	18.6	19.3	19.5	20.2	21.3
4H	2H	16.5	17.4	17.4	18.3	19.3	16.5	17.4	17.4	18.3	19.3
	3H	18.2	18.9	19.0	19.8	20.9	18.2	18.9	19.0	19.8	20.9
	4H	18.9	19.6	19.8	20.5	21.6	18.9	19.6	19.8	20.5	21.6
	6H	19.5	20.0	20.4	21.0	22.1	19.5	20.0	20.4	21.0	22.1
	8H	19.6	20.1	20.5	21.0	22.2	19.6	20.1	20.5	21.0	22.2
	12H	19.7	20.2	20.6	21.1	22.3	19.7	20.2	20.6	21.1	22.3
8H	4H	19.1	19.6	20.0	20.5	21.7	19.1	19.6	20.0	20.5	21.7
	6H	19.7	20.2	20.7	21.1	22.3	19.7	20.2	20.7	21.1	22.3
	8H	20.0	20.4	21.0	21.4	22.6	20.0	20.4	21.0	21.4	22.6
	12H	20.3	20.6	21.2	21.5	22.7	20.3	20.6	21.2	21.5	22.7
12H	4H	19.1	19.6	20.1	20.5	21.7	19.1	19.6	20.1	20.5	21.7
	6H	19.9	20.2	20.8	21.2	22.4	19.9	20.2	20.8	21.2	22.4
	8H	20.2	20.5	21.1	21.4	22.6	20.2	20.5	21.1	21.4	22.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 386
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C-planes		0°
γ	Luminance in cd/m²	
45°	6105.3	
50°	5934.9	
55°	5758.6	
60°	5551.4	
65°	5299.6	
70°	4989.7	
75°	4617.8	
80°	4144.6	
85°	3540.7	

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Luminance values in cd/m²

γ 65°

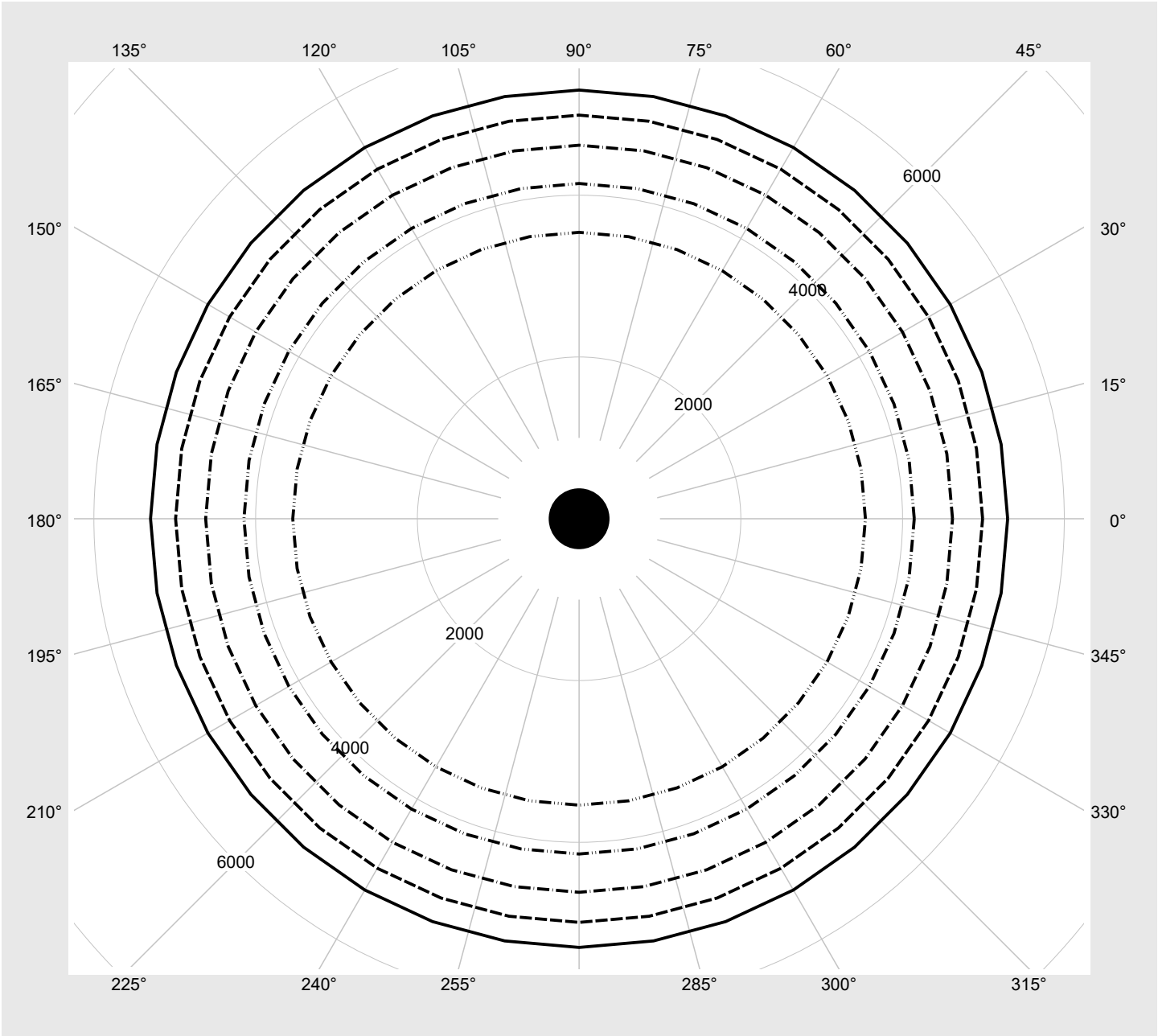
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	3520	22.8
95	241	252	3343	21.6
90	228	250	3165	20.5
85	215	248	2987	19.4
80	203	246	2822	18.3
75	190	243	2643	17.3
70	177	241	2463	16.2
65	164	238	2282	15.0
60	152	235	2115	14.0
55	139	232	1934	12.9
50	127	229	1765	11.8
45	114	225	1583	10.7
40	102	221	1413	9.7
35	89	216	1230	8.5
30	77	210	1059	7.5
25	64	204	874	6.4
20	52	196	703	5.4
15	40	186	530	4.3
10	28	173	358	3.2
5	15	150	170	1.9
2	9	132	83	1.2